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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/048,119	06/10/2002	Reiner Gieck	449122022600	1678	
25227 MORRISON &	7590 06/11/2007 & FOERSTER LLP		EXAMINER		
1650 TYSONS	BOULEVARD	•	AGHDAM, FRESHTEH N		
SUITE 400 MCLEAN, VA	22102		ART UNIT	PAPER NUMBER	
			2611		
		·			
			MAIL DATE	DELIVERY MODE	
•		·	06/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	<i>Q</i> V
		10/048,119	GIECK, REINER	
Office Action Summ	ary	Examiner	Art Unit	
	·	Freshteh N. Aghdam	2611	
The MAILING DATE of this c Period for Reply	ommunication appe	ars on the cover sheet wi	th the correspondence addres	s
A SHORTENED STATUTORY PE	DIOD EOD DEDI V	IS SET TO EVOIDE 2 M	ONTHIC) OR THIRTY (20) D	AVC
WHICHEVER IS LONGER, FROM  Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of If NO period for reply is specified above, the m Failure to reply within the set or extended period Any reply received by the Office later than thre earned patent term adjustment. See 37 CFR 1	THE MAILING DA- provisions of 37 CFR 1.136 this communication. aximum statutory period will do for reply will, by statute, c e months after the mailing d	TE OF THIS COMMUNIC (a). In no event, however, may a re I apply and will expire SIX (6) MON ause the application to become AB	CATION.  Poply be timely filed  THS from the mailing date of this commu  ANDONED (35 U.S.C. § 133).	
Status			•	
1) Responsive to communication	on(s) filed on <u>21 Ma</u>	<u>y 2007</u> .		
2a) This action is FINAL.	·—	action is non-final.		
<li>3) Since this application is in co- closed in accordance with th</li>		·	· •	rits is
Disposition of Claims				
4)⊠ Claiṁ(s) <u>1-9</u> is/are pending i	n the application.	•	•	
4a) Of the above claim(s)	is/are withdrawi	n from consideration.		
5) Claim(s) is/are allowe	d.			
6)⊠ Claim(s) <u>1-4</u> is/are rejected.				
7) Claim(s) 5-9 is/are objected		alastian vasuinamant		
8) Claim(s) are subject t	o restriction and/or	election requirement.		
Application Papers			•	
9) The specification is objected	-			
10) The drawing(s) filed on				
Applicant may not request that	· ·	*	, ,	404(4)
11) The oath or declaration is obj	-		s) is objected to. See 37 CFR 1.  Office Action or form PTO-1	, ,
	colou to by the Exa	inimier. Note the attached	TO THOSe ACTION OF TO THE TOP I	<b>JZ.</b>
Priority under 35 U.S.C. § 119			•	
12) Acknowledgment is made of		priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ No		have been received		•
<ul><li>1. ☐ Certified copies of the</li><li>2. ☐ Certified copies of the</li></ul>	•	have been received in A	polication No	
	,		received in this National Stag	e
application from the In	•	•		, -
* See the attached detailed Offi	ce action for a list o	f the certified copies not	received.	
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Attachment(s)		" <b>.</b>	(DTC 110)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing</li> </ol>	Review (PTO-948)	Paper No(s	Summary (PTO-413) S)/Mail Date	
3) Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date		5)  Notice of Ir 6)  Other:	nformal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/21/2007 has been entered.

### Response to Arguments

Applicant's arguments with respect to claims 1-9 have been considered but are most in view of the new ground(s) of rejection.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 1 recites the limitation "selecting the transmission method having the transmission speed in which the measured and stored line parameters are most compatible". There is insufficient antecedent basis for this limitation in the claim.

Therefore, examiner made the broadest reasonable interpretation of claim 1 for examining purposes.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Goodson et al. (US 5,715,277).

As to claim 1, Goodson discloses measuring line parameters of a line using at least one transmission method (Fig. 8, means 800; Col. 11, lines 6-17) selecting a transmission method having a transmission speed (e.g. rate/carrier frequency) in which the measured line parameters (e.g. SDR; Fig. 8, means 820, 830, 825, and 827) are most compatible with a different plurality of stored line parameters for which at least one transmission method with at least one transmission speed that represents a maximum data throughput rate is determined and stored in memory (Fig. 8, means 829 and 840; Col. 9, lines 30-67, Col. 11, lines 36-67).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodson et al, and further in view of BROTHERS (US 2002/0016794).

As to claim 2, Goodson discloses that the line parameters are represented by the attenuation of the line (Fig. 8, means 825). Goodson is not explicit about the line parameters are represented by the running time of the line and by interference signals on the line. BROTHERS discloses a communication method/ apparatus, wherein the line parameters are represented by the attenuation, interference, and running time of the line (Par. 19). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teaching of BROTHERS with Goodson in order to more efficiently transmitting a signal by determining the line parameters responsive to the line attenuation, running time of the line and by interference signals on the line (Par. 19).

As to claim 4, Goodson discloses that the maximum data rate for different line parameters is determined with different transmission methods and transmission speeds, by selecting the transmission methods in the frequency range of which the line parameters demonstrate the least variations (Fig. 8, means 829 and 840; Col. 9, lines 30-67, Col. 11, lines 36-67). Goodson is not explicit about the line parameters are represented by the attenuation and running time of the line and by interference signals on the line. BROTHERS teaches that the line parameters are represented by the attenuation, interference, and running time of the line (Par. 19). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teaching of BROTHERS with Goodson in order to more efficiently transmitting a signal by determining the line

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parameters responsive to the line attenuation, running time of the line and by interference signals on the line (Par. 19).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goodson et al and BROTHERS, further in view of Zirwas (US 6,798,855).

As to claim 3, Goodson and BROTHERS teach all the subject matter claimed in claim 2, except for the running time being determined by a measurement of the phase difference between two signals with different frequencies. Zirwas teaches that the running time is determined by a measurement of the phase difference between two signals (Col. 7, Lines 30-35). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teaching of Zirwas with Goodson and BROTHERS in order to enhance signal transmissions by determining the running time from measuring the phase difference between two signals with different frequencies.

### Allowable Subject Matter

Claims 5-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

McGhee (US 6,389,065) see summary of the invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Freshteh N. Aghdam whose telephone number is 571-272-6037. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 6, 2007

Freshteh Aghdam Examiner Art Unit 2611